

Form PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Application No.	09/864,093
	Filing Date	05/21/2001
	First Named Inventor	Clark et al.
	Group Art Unit	2633
	Examiner Name	
Sheet 1 of 8	Attorney Docket No.	70651

U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD- YYYY)	CLASS	SUB CLASS	FILING DATE
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	AA		09/823,175 (with Preliminary Amendment filed 7/25/01)		Willebrand				03/29/2001
	AB		09/849,613		Willebrand et al.				05/04/2001
	AC		09/482,782		Willebrand et al.				01/13/2000
	AD		6,239,888	B1	Willebrand	05/29/2001			04/24/1998
	AE		6,219,363	B1	Fix et al.	04/17/2001			04/29/1999
	AF		6,122,084		Britz et al.	09/19/2000			03/03/1998
	AG		6,049,593		Acampora	04/11/2000			12/19/1997
	AH		6,014,236		Flaherty	01/11/2000			02/04/1997
	AI		5,995,253		Flaherty	11/30/1999			02/04/1997
	AJ		5,983,068		Tomich et al.	11/9/1999			02/29/1996
	AK		5,978,118		Flaherty	11/02/1999			02/04/1997
	AL		5,966,229		Dodley et al.	10/12/1999			06/18/1997
	AM		5,946,120		Chen	08/31/1999			05/30/1997
	AN		5,917,629		Hortensius et al.	06/29/1999			10/29/1990
	AO		5,859,725		Sugiya et al.	01/12/1999			01/12/1999
	AP		5,844,705		Rufledge	12/01/1998			02/13/1997
	AQ		5,838,470		Radehaus et al.	11/17/1998			06/04/1997
	AR		5,818,619		Medved et al.	10/06/1998			06/13/1996

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	AS		5,786,923		Doucet et al.	07/28/1998			03/29/1996
	AT		5,778,116		Tomich	07/07/1998			01/23/1997
	AU		5,777,768		Korevaar	07/07/1998			08/29/1996
	AV		5,764,677		Scheps	06/09/1998			12/14/1995
	AW		5,748,813		Cassidy et al.	05/05/1998			07/28/1993
	AX		5,661,582		Kintis et al.	08/26/1997			10/26/1995
	AY		5,659,413		Carlson	08/19/1997			02/28/1995
	AZ		5,654,816		Fishman	08/05/1997			06/06/1996
	BA		5,606,444		Johnson et al.	02/25/1997			10/20/1994
	BB		5,596,661		Henry et al.	01/21/1997			12/28/1994
	BC		5,588,015		Yang	12/24/1996			08/22/1995
	BD		5,587,830		Chraplyvy et al.	12/24/1996			05/28/1993
	BE		5,574,589		Feuer et al.	11/12/1996			01/09/1995
	BF		5,526,161		Suzuki et al.	06/11/1996			06/20/1994
	BG		5,475,520		Wissinger	12/12/1995			06/22/1994
	BH		5,465,170		Arimoto	11/07/1995			01/19/1994
	BI		5,457,562		Tremblay	10/10/1995			05/20/1994
	BJ		5,452,124		Baker	09/19/1995			03/04/1994
	BK		5,448,391		Iriyama et al.	09/05/1995			06/29/1993
	BL		5,443,227		Hsu	08/22/1995			10/15/1993
	BM		5,416,864		Cassidy et al.	05/16/1995			11/20/1991

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	BN		5,416,627		Wilmoth	05/16/1995			04/24/1992
	BO		5,410,147		Riza et al.	04/25/1995			08/20/1992
	BP		5,400,166		Huber	03/21/1995			10/20/1992
	BQ		5,394,489		Koch	02/28/1995			07/27/1993
	BR		5,390,040		Mayeux	02/14/1995			02/04/1994
	BS		5,384,652		Allen et al.	1/24/1995			01/06/1993
	BT		5,371,734		Fischer	12/06/1994			01/29/1993
	BU		5,359,446		Johnson et al.	10/25/1994			09/10/1992
	BV		5,353,294		Shigeno	10/04/1994			09/30/1992
	BW		5,331,449		Huber et al.	07/19/1994			03/15/1993
	BX		5,311,535		Karpinski	05/10/1994			07/28/1992
	BY		5,301,054		Huber et al.	04/05/1994			01/14/1993
	BZ		5,267,010		Kremer et al.	11/30/1993			05/31/1991
	CA		5,247,381		Olmstead et al.	09/21/1993			05/20/1992
	CB		5,223,781		Criswell et al.	06/29/1993			03/08/1990
	CC		5,221,983		Wagner	06/22/1993			01/19/1989
	CD		5,218,467		Ross et al.	06/08/1993			12/28/1990
	CE		5,218,356		Knapp	06/08/1993			05/31/1991
	CF		5,210,631		Huber et al.	05/11/1993			12/22/1989
	CG		5,200,631		Austin et al.	04/06/1993			08/06/1991

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	CH		5,185,814		Healey	02/9/1993			07/13/1990
	CI		5,185,758		Fan et al.	02/09/1993			01/07/1992
	CJ		5,142,400		Solinsky	08/25/1992			05/28/1991
	CK		5,083,874		Aida et al.	01/28/1992			04/10/1990
	CL		5,068,916		Harrison et al.	11/26/1991			10/29/1990
	CM		5,060,303		Wilmoth	10/22/1991			09/06/1988
	CN		5,019,768		Criswell et al.	05/28/1991			02/11/1988
	CO		5,005,937		Aida et al.	04/09/1991			04/10/1990
	CP		4,975,926		Knapp	12/04/1990			03/30/1989
	CQ		4,932,775		Wissman et al.	06/12/1990			11/21/1988
	CR		4,922,502		Unternahrer et al.	05/01/1990			06/29/1988
	CS		4,826,269		Streifer et al.	05/02/1989			10/16/1987
	CT		4,823,357		Casey	04/18/1989			11/10/1986
	CU		4,794,345		Linford et al.	12/27/1988			02/26/1986
	CV		4,773,063		Hunsperger et al.	09/20/1988			11/13/1984
	CW		4,761,059		Yeh et al.	08/02/1988			07/28/1986
	CX		4,757,268		Abrams et al.	07/12/1988			05/22/1985
	CY		4,717,913		Elger	01/05/1988			08/29/1985
	CZ		4,689,482		Horikawa et al.	08/25/1987			06/13/1985

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	DA		4,639,586		Fender et al.	01/27/1987			02/06/1985
	DB		4,630,254		Tseng	12/16/1986			10/26/1984
	DC		4,428,647		Sprague et al.	01/31/1984			11/04/1982
	DD		4,060,769		Mallozzi et al.	11/29/1977			09/20/1974
	DE		3,967,899		O'Meara	07/06/1976			12/30/1974
	DF		3,488,586		Watrous et al.	01/06/1970			06/02/1965

FOREIGN PATENT DOCUMENTS										
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	FOREIGN PATENT DOCUMENT			DATE OF PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	TRANSLATION	
			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
	DG		WO	00/54413	A2	09/14/2000			X	
	DH		GB	2 228 385	A	08/22/1990			X	

OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	DI		G. NYKOLAK et al.; "A 40 Gb/s DWDM Free Space Optical Transmission Link Over 4.4 km"; <i>Free Space Laser Communication Technologies XII; Proceedings of SPIE</i> ; Vol. 3932, pp. 16-20; (2000).

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	DJ		P. F. SZAJOWSKI et al.; "Key Elements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; <i>Free-Space Laser Communication Technologies XII; Proceedings of SPIE</i> ; Vol. 3932, pp. 2-14; (2000).
	DK		R. PAIELLA et al.; "Generation and Detection of High-Speed Pulses of Mid-Infrared Radiation with Intersubband Semiconductor Lasers and Detectors"; <i>IEEE Transactions on Photonics Technology Letters</i> ; Vol. 12, No. 7; pp. 780-782; (July 2000).
	DL		F. G. OMENETTO et al.; "Shaping, Propagation and Characterization of Ultrafast Pulses in Optical Fibers"; <i>Applied Physics B, Lasers and Optics</i> ; pp. 1-6; (2000).
	DM		G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km Free-Space Optical Communications Link: Availability and Scintillation Performance"; <i>Part of the SPIE Conference on Optical Wireless Communications II; SPIE</i> ; Vol. 3850; pp. 11-19 (September 1999).
	DN		S. SCHILLER et al.; "Theory of an Optical Parametric Oscillator with Resonant Pump and Signal"; <i>J. Optical Society of America</i> ; Vol. 16, No. 9; pp. 1512-1524; (September 1999).
	DO		P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enable 1550 nm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; <i>Part of the SPIE Conference on Optical Wireless Communications II; SPIE</i> ; Vol. 3850; pp. 2-10; (September 1999).
	DP		Y. YASHKIR et al.; "Passively Q-Switched 1.5 - μ m Intracavity Optical Parametric Oscillator"; <i>Applied Optics</i> , Vol. 38, No. 12; pp. 2554-2559; (April 1999).
	DQ		GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; <i>Computer, IEEE</i> ; pp. 69-75; (February 1998).
	DR		KIM et al.; "Scintillation Reduction Using Multiple Transmitters"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2990; pp. 102-113; (1997).
	DS		BELMONTE et al.; "Performance of a Multiple-Aperture Optical System"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2699; pp. 316-326; (1996).
	DT		K. E. WILSON et al.; "Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment between Table Mountain and the ETS-VI Satellite"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2699; pp. 121-132 (1996).

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	DU		A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; <i>Applied Optics</i> , Vol. 35, No. 8; pp. 1296-1308 (March 10, 1996).
	DV		J. SCHUSTER et al.; "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/Slant Gimbal"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2699; pp. 227-239 (January 30-31, 1996).
	DW		E. KOREVAAR et al.; "Design of Satellite Terminal for BMDO Lasercom Technology Demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2381; pp. 60-71 (February 7-8, 1995).
	DX		KUDIELKA et al.; "Experimental Verification of an Adaptive Optical Multi-Aperture Receive Antenna for Laser Space Communications"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; pp. 478-483 (1994).
	DY		E. KOREVAAR et al.; "Status of BMDO/IST Lasercom Advanced Technology Demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; pp. 96-107 (1994).
	DZ		A. S. ACAMPORA; "The Scalable Lightwave Network"; <i>IEEE Communications Magazine</i> ; pp. 36-42 (December 1994).
	EA		C. BRACKETT et al.; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; <i>Journal of Lightwave Technology</i> , Vol. 11, No. 5/6; pp. 736-753, (May/June 1993).
	EB		E. KOREVAAR et al.; "Status of SDIO/IS&T Lasercom Testbed Program"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 1866; pp. 116-127 (January 20-21, 1993).
	EC		J. H. CHURNSIDE; "Aperture Averaging of Optical Scintillations in the Turbulent Atmosphere"; <i>Applied Optics</i> , Vol. 30, No. 15; pp. 1982-1994 (May 20, 1991).
	ED		W. M. BRUNO et al.; "Diode Laser Spatial Diversity Transmitter"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 1044; pp. 187-194 (1989).
	EE		A. S. ACAMPORA; "A Multichannel Multihop Local Lightwave Network"; <i>GLOBECOM '87; IEEE</i> ; pp. 1459-1467, (1987).
	EF		D. L. FRIED; "Aperture Averaging of Scintillation"; <i>Journal of the Optical Society of America</i> , Vol. 57, No. 2; pp. 169-175 (February 1967).

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Examiner Signature		Date Considered	
<small>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</small>			

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Inventor(s): Clark et al.

Title: FREE-SPACE OPTICAL
COMMUNICATION SYSTEM EMPLOYING
WAVELENGTH CONVERSION

Application Serial No. 09/864,093

Filed: May 21, 2001

Group Art Unit: 2633



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